

# **Articulated Portable Lamp fixture**

## **BACKGROUND OF THE INVENTION**

### **5 1. Field of the invention**

The present invention relates to an articulated portable lamp fixture, and more particularly, a portable lamp fixture which is developable and retractable by articulation motion, and can be fixed at any desired angle step by step by trapping a stop block  
10 into a confinement groove so that this portable lamp is convenient to use and put away.

### **2. Description of the Prior Art**

It is very inconvenient and annoying to look for something in a dark place without using a lamp to light. A portable lamp may be  
15 helpful in this occasion.

If the portable lamp is too large in size, it is inconvenient to handle when in use and occupies a large space to put away when not in use. On the other hand, though a small lamp is easy to handle, the area it can illuminate is limited and the light intensity it  
20 can provide is too weak.

In view of this, if a portable lamp fixture is made into developable and retractable structure, the inherent shortcomings which the user is presently suffering from will be solved.

It is what the reason the inventor has put forth every effort for  
25 years by continuous research and experimentation intending to

discover the remedy to palliate the shortcomings of the structure of the conventional portable lamp described above, and at last succeeded in realizing the present invention.

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## SUMMARY OF THE INVENTION

It is an object of the present invention to provide an articulated portable lamp fixture which can be developed and retracted by articulation motion so as to be handled easily when  
10 being in use and put away conveniently when being not in use.

It is another object of the present invention to provide an articulated portable lamp fixture which can be developed to fix at any desired angle where it may provide the best lighting effect for the user.

15 To achieve the above mentioned objects, the lamp fixture of the present invention is essentially composed of a grip and a fixture body. An articulation is provided at the top part of the grip with two hinge pins each protruded from one side of the articulation. An aperture is opened at a proper position at one of  
20 the two hinge pins to provide access for the electrical wiring to the fixture body. A washer is provided for each of the hinge pins so as to fix the grip tightly to the fixture body. Several straight confinement grooves are parallelly formed along the surface of the articulation. A power outlet with a power supply conductor is  
25 provided to the bottom surface of the grip, and a switch is

installed on the grip at a proper position thereof to make ON/OFF control for the power supply to the lamp; while the power outlet serves as a transit station for the power supply to other electric appliances.

5        Two lugs each having a recessed hinge hole at its inner wall are vertically erected on the lower end of the fixture body, and a spring leaf with a stop block is interposed between the two lugs. A hook with a rotatable ball end is formed on the top part of the fixture body so as to allow the hook revolvable with respect to the  
10    fixture body thereby facilitating the user to hang up the lamp fixture from various directions. By fitting the hinge pin on the grip into the hinge hole of the fixture body, the grip and the fixture body can be steadfastly combined together to allow the grip to make articulation motion with respect to the fixture body and  
15    pause step by step at the position when the stop block protruded on the spring leaf comes to be trapped in one of the confinement grooves provided on the articulation of the grip such that the lamp fixture can be developed to be fixed at any desired angle convenient to provide the best lighting effect.

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## **BRIEF DESCRIPTION OF THE DRAWINGS**

The drawings disclose an illustrative embodiment of the present invention which serves to exemplify the various  
25    advantages and objects hereof, and are as follows:

Fig. 1 is a three dimensional exploded view of the present invention;

Fig. 2 is a three dimensional assembly view of the present invention; and

5 Fig. 3(A) and 3(B) are the illustrative views of the articulation motion of the present invention.

### **DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT**

10 Referring to fig. 1 through Fig. 3, the articulated portable lamp fixture of the present invention is essentially composed of a grip 1 and a fixture body 2. An articulation 11 is provided at the top part of the grip 1 with two hinge pins 111 each protruded from one side of the articulation 11. An aperture 1111 is opened at a  
15 proper position at one of the two hinge pins 111 to provide access for the electrical wiring to the fixture body 2. A washer 112 is provided for each of the hinge pins 111 so as to fix the grip 1 tightly to the fixture body 2. Several straight grooves 113 are formed in parallel along the surface of the articulation 11. A  
20 power outlet 12 with a power supply conductor 13 is provided to the bottom surface of the grip 1, and a switch is installed on the grip 1 at a proper position thereof to make ON/OFF switching for the power supply to the lamp; while the outlet 12 serves as a transit station for the power to other electric appliances.

25 Two lugs 21 each having a recessed hinge hole 211 at its

inner wall are vertically erected on the lower end of the fixture body 2, and a spring leaf 22 with a stop block 221 is interposed between the two lugs 21. A hook 23 with a rotatable ball end 231 is formed on the top part of the fixture body 2 so as to allow the hook 23 revolvable with respect to the fixture body 2 thereby facilitating the user to hang up the lamp fixture from any direction. By fitting the hinge pins 111 of the grip 1 into the hinge holes 211 of the fixture body 2, the grip 1 and the fixture body 2 can be steadfastly combined together to allow the grip 1 to make articulation motion with respect to the fixture body 2 and pause step by step at the position when the stop block 221 protruded from the spring leaf 22 comes to be trapped in one of the confinement grooves 113 provided on the articulation 11 of the grip 1 such that the lamp fixture can be developed to be fixed at any desired angle convenient to provide the best lighting effect.

It emerges from the above description that the articulated portable lamp fixture of the present invention has several noteworthy advantages, in particular:

1. That it can be developed and retracted by articulation motion so that it can be handled easily when being in use and put away conveniently without occupying too large space at leisure.

2. That it can be developed to fix at any desired angle where it may provide the best lighting effect.

Many changes and modifications in the above described embodiment of the invention can, of course, be carried out without

departing from the scope thereof. Accordingly, to promote the progress in science and the useful arts, the invention is disclosed and is intended to be limited only by the scope of the appended claims.